

A Web Services Manifesto



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The Williams Family

Life Event: *Moving to Utah*

- Change of address
- Register car
- Register to vote
- Enroll child in school
- Bussing
- City services
- Health information
- Child safety
- Check the commute
- Tax information



Federating Services

Moving to Utah

- Real estate
- Taxes
- Register car
- Register to vote
- Enroll child in school
- Bussing
- City services
- Utilities
- Health information
- Banking
- Child safety
- Change of address
- Check commute

Child entering School

- Health information
- Grades
- Tuition and fees
- Books
- Child safety
- Bussing
- Federal programs
- Check commute

Shared services

Private services

Government Data

- Government controls vast data resources
- That data is held hostage in disconnected, legacy data resources
- eGovernment is about, in part, freeing data from siloed systems and legacy platforms

Enabling Web Services

- There are things we can do, for almost nothing, as we put government services online that will have a **huge** impact on future development.
- But...we have to design wisely.

Design Principles

1. *Every* data element and collection is a resource
2. *Every* resource should have a URI
3. Cool URI's *don't* change
4. Preserve the structure of data until the *last possible moment* (i.e. return XML)
5. Make XML Schemas available *online* for your XML
6. Data queries on existing resources should be done with a GET
7. Use POST to create new resources

Design Principles (cont)

8. Document your service API using WSDL, WRDL, or some other standard
9. Advertise the presence of the data using WSIL
10. Adhere to data standards such as RSS where available
11. Use Metadata (RDF) for XML
12. Use HTTP authentication as much as possible
13. Make data available in multiple flavors

IAA is Key to this Vision

- Identity
- Authentication
- Authorization
- Example: a driver's license

Utah Master Directory

- Utah finally has a single directory for all employees!
- Data maintained with employment records
- Single utah.gov email address
- Aids in security
- Single-sign on
- Next steps:
 - Better authentication possible
 - Authorization based on job function

Citizen Directory

- Stores citizen data for web services on an opt-in basis.
- Protected under GRAMA
- Based on UMD
- Provides for
 - Personalization
 - Single sign-on
 - Ease of use
 - Reminders and events
 - Could provide authorization data

For More Information

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